

**IN THE CLAIMS:**

1-8. (Cancelled)

9. (Currently Amended) Vehicle roof with an integrated device for ventilating and cooling an interior of a vehicle, comprising an air guide channel having air inlet openings located in a rear area of the vehicle roof, the air guide channel being restricted to a rear area of the vehicle roof, at least one fan within the air guide channel for taking in outside air, and solar cells on roof for supplying power to at least the at least one fan; wherein a bottom side of the air guide channel is formed by a first roof panel portion which extends from a rear end of the roof vehicle toward a front end of the roof, and wherein a top side of the air guide channel is formed by a second roof panel portion which extends from the front end of the roof toward the rear end of the roof; wherein the air guide channel extends essentially in a lengthwise direction of the roof; wherein the second roof panel portion is located overlying the first roof panel portion, wherein said air inlet openings are located at a rear end of the second roof panel portion and face in a rearward direction, and wherein air outlet openings are located at a front end of the first roof panel portion and face in a forward direction, wherein at least one cooling element is mounted in the air guide channel, and wherein the solar cells are also connected for supplying power to said at least one cooling element.

10. (Previously Presented) Device as claimed in claim 9, wherein the solar cells are mounted above the air guide channel on the outside of the second roof panel.

11. (Cancelled)

12. (Previously Presented) Device as claimed in claim 9, wherein the air guide channel has air outlet openings for directing air into a vehicle interior which are located at an end of the air guide channel which is directed toward the front end of the vehicle front.

13. (Previously Presented) Device as claimed in claim 9, wherein the at least one fan is an axial fan.

14. (Previously Presented) Device as claimed in claim 9, wherein the at least one fan is a radial fan.

15. (Previously Presented) Device as claimed in claim 12, wherein the air inlet openings, the air guide channel and the air outlet openings extend across the entire width of the vehicle roof.

16. (Cancelled)

17. (Currently Amended) Device as claimed in claim 9, [[16,]] wherein the at least one cooling element is a Peltier cooling element.

18. (Cancelled)

19. (Cancelled)

20. (New) Vehicle roof with an integrated device for ventilating and cooling an interior of a vehicle, comprising an air guide channel having air inlet openings located in a rear area of the vehicle roof, the air guide channel being restricted to a rear area of the vehicle roof, at least one fan within the air guide channel for taking in outside air, and solar cells on roof for supplying power to at least the at least one fan; wherein a bottom side of the air guide channel is formed by a first roof panel portion which extends from a rear end of the roof vehicle toward a front end of the roof, and wherein a top side of the air guide channel is formed by a second roof panel portion which extends from the front end of the roof toward the rear end of the roof; wherein the air guide channel extends essentially in a lengthwise direction of the roof; wherein the second roof panel portion is located overlying the first roof panel portion, wherein said air inlet openings are located at a rear end of the second roof panel portion and face in a rearward

direction, and wherein air outlet openings are located at a front end of the first roof panel portion and face in a forward direction, wherein the air guide channel has air outlet openings for directing air into a vehicle interior which are located at an end of the air guide channel which is directed toward the front end of the vehicle front, and wherein the air inlet openings, the air guide channel and the air outlet openings extend across the entire width of the vehicle roof.

21. (New) Vehicle roof with an integrated device for ventilating and cooling an interior of a vehicle, comprising an air guide channel having air inlet openings located in a rear area of the vehicle roof, the air guide channel being restricted to a rear area of the vehicle roof, at least one fan within the air guide channel for taking in outside air, and solar cells on roof for supplying power to at least the at least one fan; wherein a bottom side of the air guide channel is formed by a first roof panel portion which extends from a rear end of the roof vehicle toward a front end of the roof, and wherein a top side of the air guide channel is formed by a second roof panel portion which extends from the front end of the roof toward the rear end of the roof; wherein the air guide channel extends essentially in a lengthwise direction of the roof; wherein the second roof panel portion is located overlying the first roof panel portion, wherein said air inlet openings are located at a rear end of the second roof panel portion and face in a rearward direction, and wherein air outlet openings are located at a front end of the first roof panel portion and face in a forward direction, wherein at least one cooling element is mounted in the air guide channel, and wherein the at least one cooling element is a Peltier cooling element.